

# QE *Pro* Spectrometers



## Robust Optical Design for Great Spectral Performance

The QE *Pro* is a versatile, high-sensitivity spectrometer ideal for general-purpose and low light level applications such as fluorescence and Raman analysis. The spectrometer has a back-thinned CCD detector with high quantum efficiency and onboard spectral buffering to ensure data integrity at high collection

rates. An optional internal shutter is available for effective management of dark measurements, and the interchangeable slit design allows users to switch between measurements easily. Both customized and preconfigured QE models are available.

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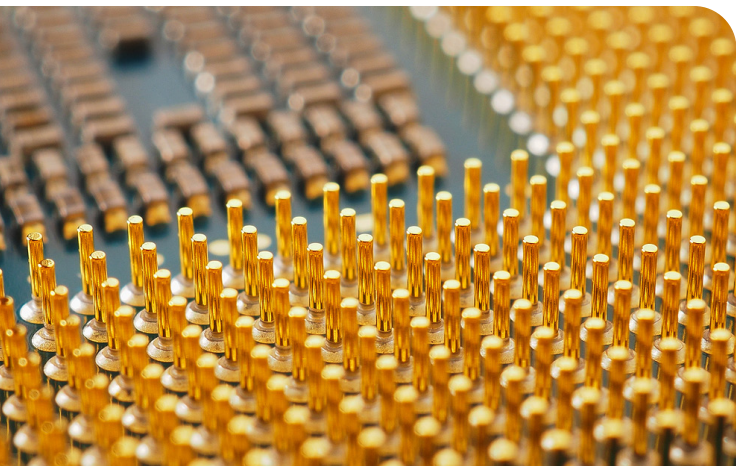
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## At a Glance

**Wavelength range:** 190-1100 nm  
(configurations available within this range)

**Optical resolution (w/10  $\mu$ m slit):**  
1.20-1.60 nm (FWHM) (preconfigured models)

**Integration time:** 8 ms-60 minutes

**Dynamic range:** 85000:1 (single scan)

**Signal to Noise Ratio (single scan):** 1000:1

**Buffering:** stores up to 15,000 spectra

**Interfaces:** USB; SMA 905; RS-232

**TEC:** -40 °C to 50 °C

**Temperature (storage):** -30 °C to 70 °C

**Temperature (operation):** 0 °C to 55 °C

**Dimensions:** 182 mm x 110 mm x 47 mm

**Weight:** 1.15 kg



For more information on the QE Pro, please contact an Ocean Optics Application Scientist today.

## High Performance, Great Flexibility

QE *Pro* has low-noise electronics and delivers great sensitivity for all sorts of applications. Users can select from these options or choose a preconfigured model for Raman applications. Setups are available using Raman excitation lasers ranging from 532 nm to 1064 nm.

### QE PRO SPECTROMETER MODELS

QE Pro model:	QE Pro UV-Vis	QE Pro Vis-NIR	QE Pro XR
Wavelength range:	200-790 nm	220-1100 nm	190-1100 nm
Entrance aperture:	10 $\mu$ m	10 $\mu$ m	10 $\mu$ m
Optical resolution (FWHM):	~1.2 nm	~1.2 nm	~1.6 nm
Order-sorting filter:	Yes	Yes	Yes
Best for:	General-purpose and low light applications	General-purpose and low light applications	High sensitivity over wide range
Example applications:	Fluorescence of proteins, dyes, biological samples	Specular and diffuse reflectance of materials	Solar irradiance measurements; blood and tissue analysis